

## 2A MDM LOAD IN DIAGNOSTIC STATE (2A-3A)

### 1. PERFORM PRE-LOAD SANITY CHECK WITH MEMORY MAP AND FILE TO BE LOADED

FMT:LOAD:INITIATOR

If S/W Load

- √SW\_Load\_XX\_EEPROM\_XX - (SW Load Version ID i.e. Rev 2)
- √Memory Location - EEPROM
- √SW\_Load\_EEPROM\_Start\_Addr - compatible with Memory Map
- √SW\_Load\_XX\_Wd\_Count - compatible with Memory Map

If ADT Load

#### NOTE

Separate files are required for Loads to non-contiguous memory areas, and also for DRAM and EEPROM Loads.

- √Memory Location - EEPROM
- √ADPXX\_EEPROM\_Start\_Addr - compatible with Memory Map
- √ADPXX\_Wd\_Count - compatible with Memory Map
- √ADPXX\_Ver\_Id -
- √ADPXX\_Cksum -
- √Destination\_Device - MDMXX

### 2. CONFIGURE FOR COMMAND UPLINK

TELCOM: TBD

If N1-2 is Primary (N1-1 is in Diagnostics)

- √Command\_Path-Orbiter/Early Comm
- If uplink path = orbiter (Normal OIU configuration)
- √OIU\_Routing\_Code -

Send Enable RT Device command to enable N1-1 MDM

√N1-1 = Enable RT

Send Disable NCS Auto Retry on N1-1

√N1-2 Auto Retry on N1-1 = Disable

If N1-1 is Primary (N1-2 is in Diagnostics)

- √Command\_Path-Orbiter/Early Comm
- If uplink path = orbiter
- Reconfigure the OIU to RT on Bus 3, BC on Bus 4, and Format 002.
- √OIU\_Routing\_Code -

Send Enable RT Device command to enable N1-2 MDM

√N1-2 = Enable RT

Send Disable NCS Auto Retry on N1-2

√N1-1 Auto Retry on N1-2 = Disable

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If both MDMs are in Diagnostics (orbiter must present)  
Uplink Path = OIU  
Reconfigure the OIU to make bus 3/4 BC to the MDM being loaded  
and use format 002.  
√OIU\_Routing\_Code -

3. SEND LOAD FILE

FMT:LOAD:INITIATOR

If SW Load  
    **cmd\_SW\_Load\_XX\_Version XX\_Uplink** (TBD)  
If ADT Load  
    **cmd\_ADP\_Load\_XX\_Uplink** (TBD)

**NOTE**

Send all load cmd files.  
Multiple ADP files may be required.

**cmd\_\_SW\_PT#\_Uplink** (TBD)  
**cmd\_ADP\_XX\_cksum \_Uplink** (TBD)

4. VERIFY COMPLETION OF LOAD

FMT:LOAD:INITIATOR

√FMT\_Load\_Status - 100% complete

5. REINITIALIZE EEPROM

Perform SODF: REINITIALIZE NODE 1 MDMs procedure